

the responding device is 1-to-1, the invention is not limited thereto. Specifically, embodiments of the invention may be directed to a virtual reality control system and/or an emulated target device controller that is capable of controlling a plurality of responding devices. The plurality of responding devices may or may not be of the same type (i.e. the plurality of responding devices include five air conditionings or two air conditionings and a television remote controller.). Similarly, the responding device may be controlled by a plurality of virtual reality control systems.

[0045] Advantageously, one or more embodiments of the invention enable individuals to operate machineries remotely, without being in proximity of dangerous environments. Embodiments of the invention have various applications and may be applied to industries including, for example, resource exploitation, space exploration, waste management, military, entertainment, etc.

[0046] For the purposes of this application, “reality” is defined as the natural unaltered state seen by an individual. For the purposes of this application, “virtual” is defined as anything that does not fall within the definition of “reality”. Thus, for example, “augmented reality”, which is typically defined as a live direct or indirect view of a physical, real-world environment whose elements are augmented by computer-generated sensory input, falls within the definition of “virtual”. However, it should be noted that, if the “augmented reality” is displayed on a hardware component, the hardware component itself falls within the definition of “reality”.

[0047] Furthermore, one of ordinary skill in the art would appreciate that certain “components”, “modules”, “units”, “parts”, “elements”, or “portions” of the one or more embodiments of the invention may be implemented by a circuit, processor, etc., using any known methods. Accordingly, the scope of the disclosure should be limited only by the attached claims.

What is claimed is:

1. A virtual reality controller system comprising:
 - a virtual reality hardware comprising a processor, a first communication module, a sensor module, and an output module; and
 - a responding device comprising a second communication module and configured to communicate with the first communication module,
 wherein the processor is configured to generate and display a virtual controller using the output module, and
 wherein the virtual controller is configured to control the responding device.
2. The system according to claim 1, wherein the virtual controller is generated upon the sensor module detecting a presence of the responding device or the first communication module being in a range of the responding device.
3. The system according to claim 1, wherein:
 - the sensor module comprises at least one of a motion sensor and an image acquisition unit,
 - the output module is a flexible display,
 - the motion sensor is configured to detect a motion, an orientation, and a location of a user using the virtual reality hardware, and
 - the image acquisition unit is a camera.
4. The system according to claim 3, wherein, upon the sensor module detecting an instruction from the user that is compatible with the virtual controller and the responding

device, the processor, using the first communication module, is configured to transmit the instruction to the second communication module and cause the responding device to execute a command that corresponds to the instruction.

5. The system according to claim 1, wherein:
 - the responding device is an actuator, and
 - upon the sensor module detecting an instruction from a user that is compatible with the virtual controller and the responding device, the processor, using the first communication module, is configured to transmit the instruction to the second communication module and cause the actuator to actuate according to a command that corresponds to the instruction.
6. The system according to claim 1, wherein the virtual controller is configured to control a plurality of responding devices.
7. The system according to claim 6, wherein two of the plurality of responding devices are an air conditioning and a television.
8. The system according to claim 1, wherein:
 - the virtual controller comprises a virtual mouse and a virtual keyboard, and
 - the responding device is one selected from the group consisting of: a personal computer, a laptop, a smart-phone, and a tablet.
9. The system according to claim 1, wherein the responding device is a virtual responding device displayed using the output module.
10. The system according to claim 1, wherein the virtual controller controls the responding device only after an authentication process that authenticates a communication between the virtual reality controller system and the responding device.
11. The system according to claim 1, wherein the responding device is configured to respond to a plurality of virtual controllers.
12. The system according to claim 1, wherein the virtual controller is one selected from a group consisting of: an ON-OFF switch and a volume dial.
13. A virtual reality controller system comprising:
 - a virtual reality hardware comprising a processor, a first communication module, a sensor module, a virtualization module, and an output module; and
 - a target hardware device,
 wherein the virtualization module is configured to receive a source file of the target hardware device,
 wherein the virtual reality device creates, using the source file, a virtual machine that emulates the target hardware device, and
 wherein an emulated target device controller is displayed using the output module.
14. The system according to claim 13, wherein the target hardware device is one selected from the group consisting of: a personal computer, a laptop, a smartphone, and a tablet.
15. The system according to claim 13, wherein the target hardware device is a prosthesis.
16. The system according to claim 13, wherein the emulated target device controller is configured to control a responding device.
17. The system according to claim 16, wherein the responding device is a virtual responding device displayed using the output module.